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### **Abstract**

A washing machine which has no need of adding detergent by the user and the washing method thereof. The washing method comprises balancing setting the pH surface tension electrical conductivity and hardness of the washing liquid in a certain range, washing in a general automatic washing machine with the use of a high pH electrolyzed  
10 water combined with a regulator; in which the pH of the washing liquid is in the range of 8.5-11, the electrical conductivity of it is in the range of 261 $\mu$ S/cm-875 $\mu$ S/cm, the surface tension is in the range of 25-40mN/m, and the hardness is in the range of 5-400ppm. If necessary, 0.2-0.3g/time of the regulator could be added in the above condition. According to the method of the invention it is possible to realize washing  
15 without detergent; because the washing liquid is subjected to the treatment. The cost of the detergent will be saved and the pollution caused by detergents will be avoided. At the same time, the fabric hardening due to it will be overcome, and an optimum washing condition will be obtained.